

BACKFILL DETAILS
SEE DWG. _____

CONDITIONS OF USE

- BACKFILL: 5 TO 8 FEET
LESS THAN 50% FINES ONLY
MACHINERY SURCHARGE LOADING CONDITIONS ALLOWED:
(SEE PA-DESIGN GUIDE 4)
- STRUCTURAL SLAB OR PUSH-OFF ON WALL (A)
 - NONSTRUCTURAL SLAB ADJACENT TO OR ON WALL (B)

DESIGN VALUES

- EARTH BACKFILL: 60 PSF/FT, EQUIVALENT FLUID PRESSURE
110 PCF (SOIL WEIGHT) AND <50% FINES
MANURE: 65 PSF/FT, EQUIVALENT FLUID PRESSURE
MACHINERY LOADING: 45 PSF EQUIV. FLUID PRESSURE
REPRESENTING MACHINERY LOAD ON NONSTRUCTURAL SLAB
- ULTIMATE STRENGTH DESIGN (ACI 318-99)
 - CONCRETE STRENGTH: 4,000 PSI REBAR: GRADE 40
 - COEFF. FRICTION (SOIL/CONCRETE) = 0.5
 - MINIMUM SLIDING FACTOR OF SAFETY = 1.5
 - WALL SLIDING RESTRAINT REQUIRED
 - MINIMUM OVERTURNING FACTOR OF SAFETY = 2.0
 - MIN. ALLOWABLE SUBGRADE BEARING CAPACITY = 2000 PSF
 - VERTICAL WALL LOAD FOR SLABS BEARING ON WALLS OR PUSH-OFFS = 1000 LBS./FT.
 - NOT DESIGNED TO SUPPORT BUILDINGS OR ROOFS

LINEAL FEET OF WALL _____

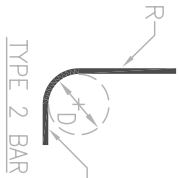
STEEL SCHEDULE (GRADE 40)

MARK	SIZE	TYPE	R	S	LENGTH	TOTAL LENGTH
A	#4	STR	---	---	7'-0"	
B	#6	2	4'-6"	1'-0"	5'-6"	
C	#5	STR	---	---	6'-0"	
D	#5	STR	---	---		
E	#4	STR	---	---		
N	#4	2	2'-0"	2'-0"	4'-0"	

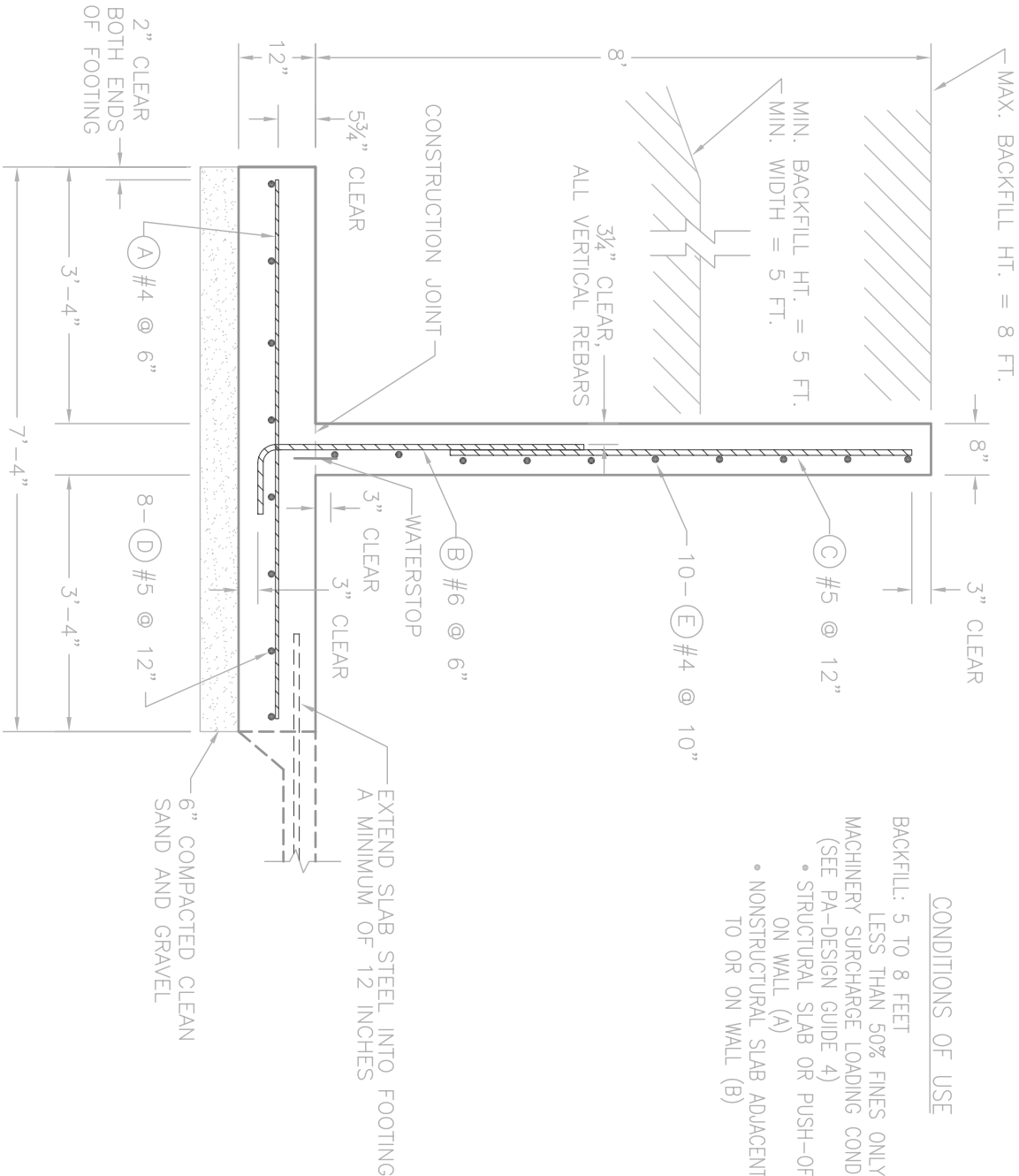
STEEL DETAILS

BAR SIZE	BEND DIAMETER (D) INCHES	SPLICE LENGTH INCHES (MIN.)*
#4	3	16
#5	3-3/4	20
#6	4-1/2	24

* IF TWO BARS OF DIFFERENT DIAMETER ARE SPLICED, USE THE LONGER SPLICE LENGTH.



WALL SECTION



CONSTRUCTION JOINT

LIQUID-TIGHT JOINT --- YES ---- NO

LIQUID-TIGHT JOINT OPTIONS

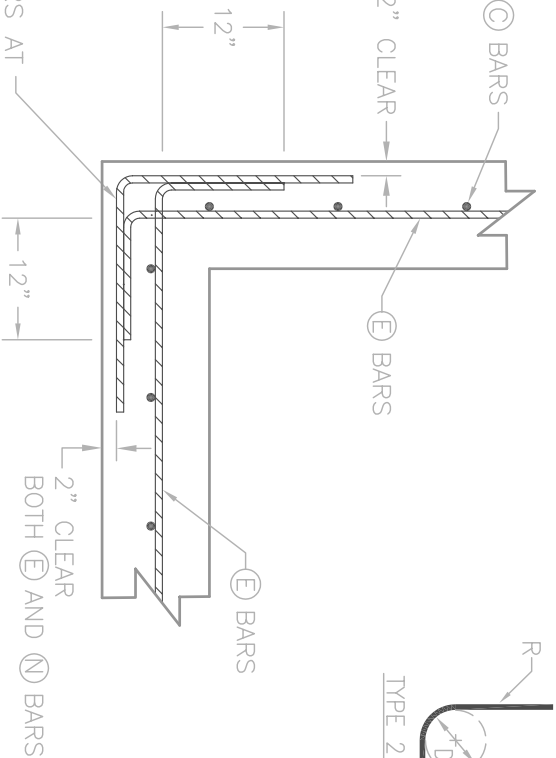
- 1) NON-METALIC WATERSTOP (PVC)
- 2) HYDROPHILIC WATERSTOP

CORNER NOTES

1. PLACE FIRST VERTICAL BAR AT WALL CORNER OR NO FURTHER THAN ONE-HALF BAR SPACING FROM THE INSIDE CORNER.
2. HOOK CAN BE SEPARATE FROM (E) BARS, PROVIDED THAT MINIMUM LAP SPLICE OF 16" FOR #4 BARS IS MET.
3. SEE WALL SECTION FOR EXACT LOCATIONS OF (C) AND (E) BARS.

PLACE (N) BARS AT _____
EACH HORIZONTAL BAR
LOCATION IN TOP 4' OF
WALL ONLY.
(5 (N) BARS TOTAL PER
CORNER)

CORNER BAR SCHEMATIC
PLAN VIEW - TOP 4 FEET
OF WALL SHOWN



THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPED IN COOPERATION WITH THE WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION. THE DESIGN FOLDER IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WISCONSIN 53717-2906

(ADAPTED FROM WI-584, APRIL 2005)



_____ COUNTY, PENNSYLVANIA
8' HIGH, 8" T-WALL, (BACKFILL 5-8 FT., < 50% FINES)
MACHINERY ALLOWED ON STRUCT. OR NONSTRUCT. SLAB

Designed _____
Drawn **TJA**
Checked _____
Approved by _____

Date **06/24/05**

File No. **PA-0280**
Drawing No. **PA-0280**

Sheet _____ of _____